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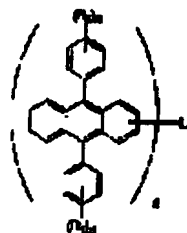
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(54) PHENYLANTHRACENE DERIVATIVE AND ORGANIC EL ELEMENT

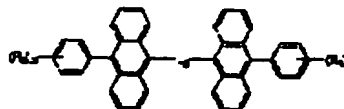
(57)Abstract:

PURPOSE: To provide the subject new phenylanthracene derivative having a specified structure, exhibiting a low crystallinity, capable of forming a thin film having a stable amorphous state and useful for, e.g. a light-emitting layer of an organic EL device capable of stably emitting high-brightness blue light.

CONSTITUTION: This is a new phenylanthracene derivative having a structure of the formula, A1LA2 (A1 and A2 are each monophenylanthryl or diphenylanthryl; L is a single bond or a divalent bonding group), represented by formula I (R1 and R2 are each an alkyl, a cyclo-alkyl, an aryl, an alkenyl, an alkoxy, an aryloxy, amino or a heterocyclic group; r1 and r2 are each 0 or 1 to 5; L1 is single bond, an arylene, etc.) or formula II (R3 and R4 are each same as R1; r3 and r4 are each 0 or 1 to 5; L2 is same as L1) and useful for, e.g. a light-emitting layer for emitting blue light in an organic EL device. This compound is synthesized by coupling 2-chloro-9,10-diphenylanthracene, etc., in the presence of bis(1,5-cyclooctadiene)nickel, 2,2'-bipyridyl, etc.



I



II

LEGAL STATUS

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